



September 10, 2020

To: All Potential Respondents
From: Construction Procurement
Subject: RFQ 917400-01 DPS Post 9 Roof Replacement

Request for Quote

The State of Iowa is conducting a Request for Quote for a contractor to complete a full roof replacement at the Iowa State Patrol's District #9 Office at 1510 W 1st Street, Cedar Falls, IA 50613. See Exhibit B for additional detail.

The roof replacement shall be completed no later than December 1, 2020.

The Project is located at 1510 W 1st Street, Cedar Falls, IA 50613.

Please email your quote using the Exhibit A pricing form to construction.procurement@iowa.gov prior to Friday, September 25, 2020 at 2:00 p.m. (CT).

All questions regarding this solicitation must be received by email by 2:00 p.m. (CT) on Wednesday, September 23, 2020.

Contract Terms and Conditions

This procurement will result in a Consensus 802 Agreement. By submitting a quote, respondent agrees to the contract terms and conditions available at: <https://das.iowa.gov/sites/default/files/procurement/pdf/ConsensusDoc802.pdf>

Site Visits

A site visit by prospective bidders is highly recommended. Please contact the Construction Manager to set up a site visit.

Performance Bond

Respondent must provide a Performance and Payment Bond in accordance with Section 10.8 of Consensus 802 Agreement.



Pre-bid Meeting

An optional, virtual pre-bid meeting will be held on Thursday, September 17, 2020 at 9:00 a.m. via a Webex meeting. This meeting is not mandatory but is highly recommended. The below information can be used to log into or call into the meeting. You can also request an invitation to the meeting by emailing Devin Gaudette with Ryan Companies (devin.gaudette@ryancompanies.com).

Pre-bid Meeting Information:

Meeting Link: <https://ryancompanies.webex.com/ryancompanies/j.php?MTID=m17a958910ca4671b385e1ae86c443595>

Join by Phone: +1-415-655-0003

Meeting Number: 145 416 5311

Password: 4ggJKiQq46s



Exhibit A Pricing Form

DPS Post 9 Roof Replacement
Iowa State Patrol District #9 Office, 1510 W 1st Street, Cedar Falls, Iowa 50613
Request for Quote RFQ917400-01

Due Friday, September 25, 2020 at 2:00 p.m. (CT)

Please submit this completed form with your Quote to:
Attention: Bobbi Pulley
Iowa Department of Administrative Services - Central Procurement
construction.procurement@iowa.gov

This form is to be completed in ink or typewritten.
Only pricing on this form or an exact copy of this form will be accepted.
Pricing Form shall be signed by an officer of the firm with authority to bind Respondent to Contract.

Respondent acknowledges receipt of the following Addenda (if issued) which are part of the RFQ documents:

Addendum No. _____ Date _____

Addendum No. _____ Date _____

The State reserves the right to reject any or all quotes without penalty and to waive minor deficiencies and informalities if, in the judgement of the State, it's best interests will be served.

Respondents must submit pricing for all scope of work items indicated per the attached Exhibit B. The State reserves the right to evaluate pricing. The State intends to make one Award for this project.

Lump Sum Quote Price for DPS Post 9 Roof Replacement

Evaluation (Labor and Material(s)) Total \$ _____

Signature _____

Name (Print) _____

Title _____

Company _____

Address _____

City, St., Zip _____

Phone # _____ Fax # _____

E-mail _____



Exhibit B Scope of Work

DPS Post 9 Roof Replacement
Iowa State Patrol District #9 Office, 1510 W 1st Street, Cedar Falls, Iowa 50613
Request for Quote RFQ917400-01

Due Friday, September 25, 2020 at 2:00 p.m. (CT)

SCOPE OF WORK

1. Contractor shall furnish all material, labor, equipment, supervision, and insurance required to replace the existing asphalt shingle roof at the Iowa State Patrol District #9 office for the State of Iowa in accordance with the Project Documents prepared by MA Architecture dated 9/9/2020. This includes, but is not limited to, removal of the existing asphalt shingles, underlayment and sheathing, installation of new roof sheathing, underlayment and shingles, adjustments to the existing gutters, and new flashing as detailed within the Project Documents.
2. Contractor is responsible for all temporary facilities required for this scope of work including trailer, trailer, telephone service, secured storage, temporary power for work, temporary and task lighting for work, temporary restroom facilities, and waste removal as determined necessary by the Contractor. The Contractor will not have access to the facility during construction.
3. Contractor shall provide all labor and equipment for Contractor's own clean up. Clean up shall be done at the end of every shift or more frequently if required for the Contractor to perform their work, for other Contractors to perform their work, as required by the Owner's operations, and at the discretion of the Construction Manager.
4. All turf, landscaping, and subgrade disturbances caused by equipment or other activities related to the Contractor's work shall be repaired or restored to proper conditions by the Contractor.
5. Contractor shall protect adjacent existing building elements from damage. Existing building elements damaged during the course of construction shall be repaired by the Contractor.
6. Construction is expected to start on October 12, 2020 with a completion date no later than December 1, 2020. Construction includes an expedited submittal and procurement process. See Exhibit D for the preliminary project schedule.

PROJECT DOCUMENTS

Drawings (see Exhibit E)

A0.00	Cover Sheet
G0.01	Abbreviations, Symbols, Sheet List
A0.01	Site Access Plan
A0.80	Demo – Roof Plans
A1.00	New Roof Plan
A2.00	Elevations
A4.01	Details
A9.00	Existing Photos

Specifications (See Exhibit E)

02 41 00	Selective Demolition
06 10 00	Rough Carpentry
07 01 50.19	Preparation for Re-Roofing
07 31 13	Asphalt Shingles
07 62 00	Sheet Metal Flashing and Trim



Exhibit C Facility Work Requirements

DPS Post 9 Roof Replacement
Iowa State Patrol District #9 Office, 1510 W 1st Street, Cedar Falls, Iowa 50613
Request for Quote RFQ917400-01

Due Friday, September 25, 2020 at 2:00 p.m. (CT)

WORK HOUR RESTRICTIONS

Available work hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday, until the installation of the new roof sheathing is complete. After installation of the roof sheathing is complete the Contractor can work outside of previously stated time, Monday through Friday, and on the weekends if arrangements are made in advance.

OWNER OCCUPANCY

The Owner will occupy the facility during the entirety of the project. Cooperate with Owner to minimize conflict and to facilitate Owner's operations.

RULES FOR CONSTRUCTION WORKERS

1. The staff of the State of Iowa has a responsibility to protect the public by providing a secure environment. All work site rules must be followed to the letter, at all times.
2. All State properties are tobacco free. No smoking will be permitted or tolerated on campus unless in designated areas.
3. Workers are permitted access only to the work site and no other area of the facility.
4. No drugs, alcohol, or firearms are allowed on the work site.
5. Do not leave money, drugs, alcohol, or firearms in your personal vehicle.
6. Company and personal vehicles are to be parked in designated or authorized area of the work.
7. Secure all tools at the end of each day.
8. Workers shall conduct themselves in an agreeable manner at all times. Failure to do so may result in removal from the work site.
9. During an emergency, follow the instructions of the staff.

BACKGROUND CHECKS

Background checks are not required for this project as the Contractor will not have access to the facility during construction. If it is deemed necessary that the Contractor shall access the facility during construction, background checks will be required. The Contractor shall work with the Construction Manager if background checks are needed.



Exhibit D Preliminary Project Schedule

DPS Post 9 Roof Replacement
Iowa State Patrol District #9 Office, 1510 W 1st Street, Cedar Falls, Iowa 50613
Request for Quote RFQ917400-01

Due Friday, September 25, 2020 at 2:00 p.m. (CT)

PRELIMINARY PROJECT SCHEDULE

The preliminary project schedule on the following page was created by the Construction Manager and should be referenced for bidding purposes only. The Contractor shall submit their own schedule to the Construction Manager no later than 48 hours prior to the pre-construction meeting for coordination with Owner's requirements.

SUBMITTAL PROCEDURES

Due to schedule constraints all submittal must be prepared and submitted to the Construction Manager within five (5) days after the execution of the contract.



DAS - 9174 DPS Post 9 Roof Replacement

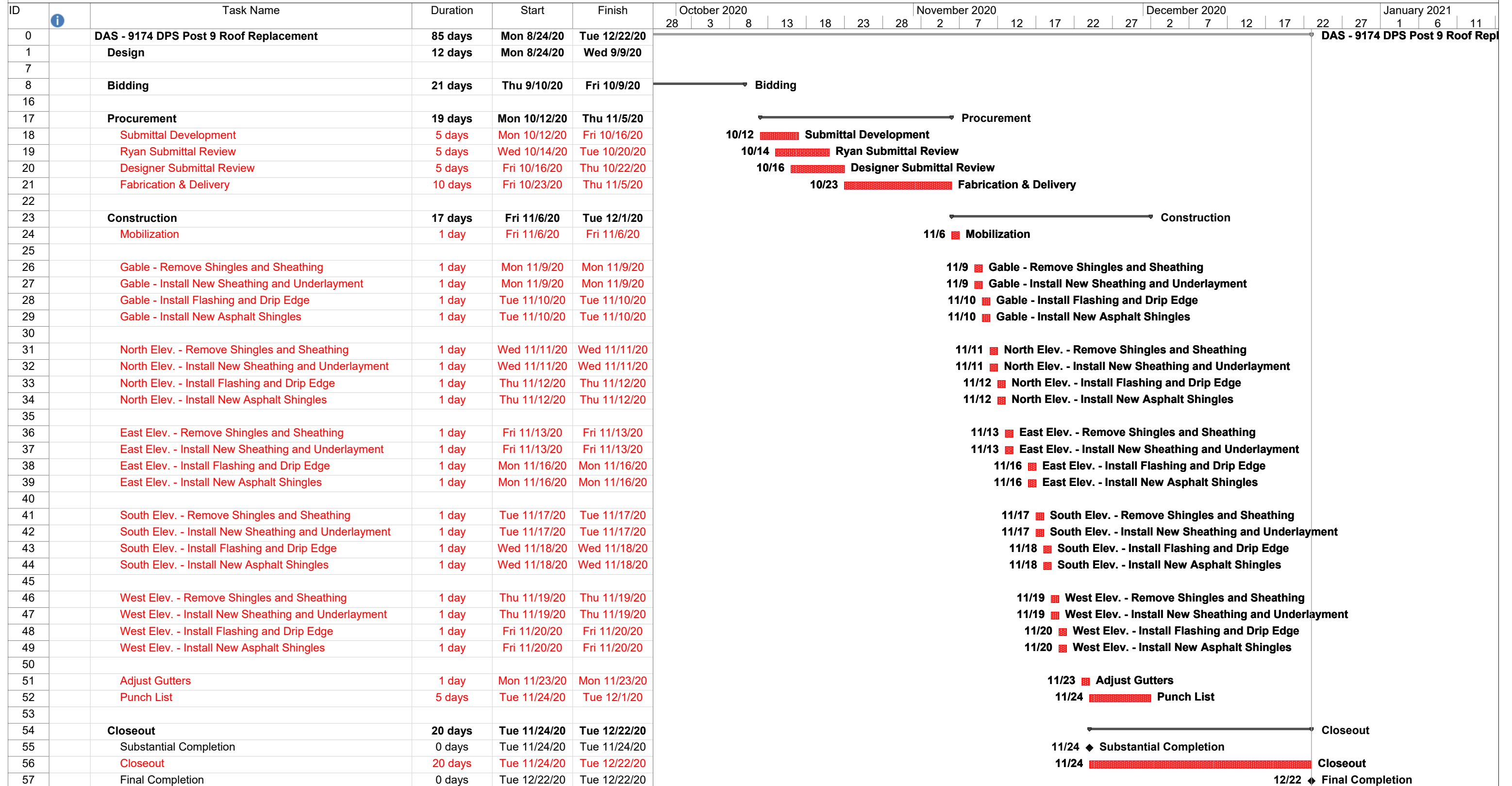




Exhibit E Drawings

DPS Post 9 Roof Replacement
Iowa State Patrol District #9 Office, 1510 W 1st Street, Cedar Falls, Iowa 50613
Request for Quote RFQ917400-01

Due Friday, September 25, 2020 at 2:00 p.m. (CT)

DRAWINGS

The following drawings dated 9/9/2020 were developed by MA Architecture.


STATE OF IOWA - DAS

DPS - POST 9 ROOF REPLACEMENT



1510 WEST 1ST STREET, CEDAR FALLS, IA 50613
 MA ARCHITECTURE PROJECT NO. 015.20
 DAS PROJECT NO. 9174.00
 RFQ NO. 917400-01

CONSTRUCTION DOCUMENTS - BID SET
 9 SEPTEMBER 2020



I hereby certify that the portion of this technical submission described below was prepared by me or under my direct supervision and responsible charge. I am a duly licensed architect under the laws of the State of Iowa.

Melinda Aust 05898
(Printed or Type Name) (License Num.)

(Signature)

Sheets covered by this seal A-Sheets

My license renewal date is June 30, 2022

Sheet List	
Sheet #	Sheet Name
GENERAL	
G0.01	ABBREVIATIONS, SYMBOLS
ARCHITECTURAL	
A0.01	SITE ACCESS PLAN
A0.80	DEMO - ROOF PLANS
A1.00	NEW ROOF PLAN
A2.00	ELEVATIONS
A4.01	DETAILS
A9.00	EXISTING PHOTOS



ABBREVIATIONS

Table of abbreviations for categories A through E, including terms like AT, AUDIO-VISUAL, ABOVE, ACCESSIBLE, etc.

ABBREVIATIONS

Table of abbreviations for categories F through J, including terms like FEMALE, FIRE ALARM HORN, FABRIC, etc.

ABBREVIATIONS

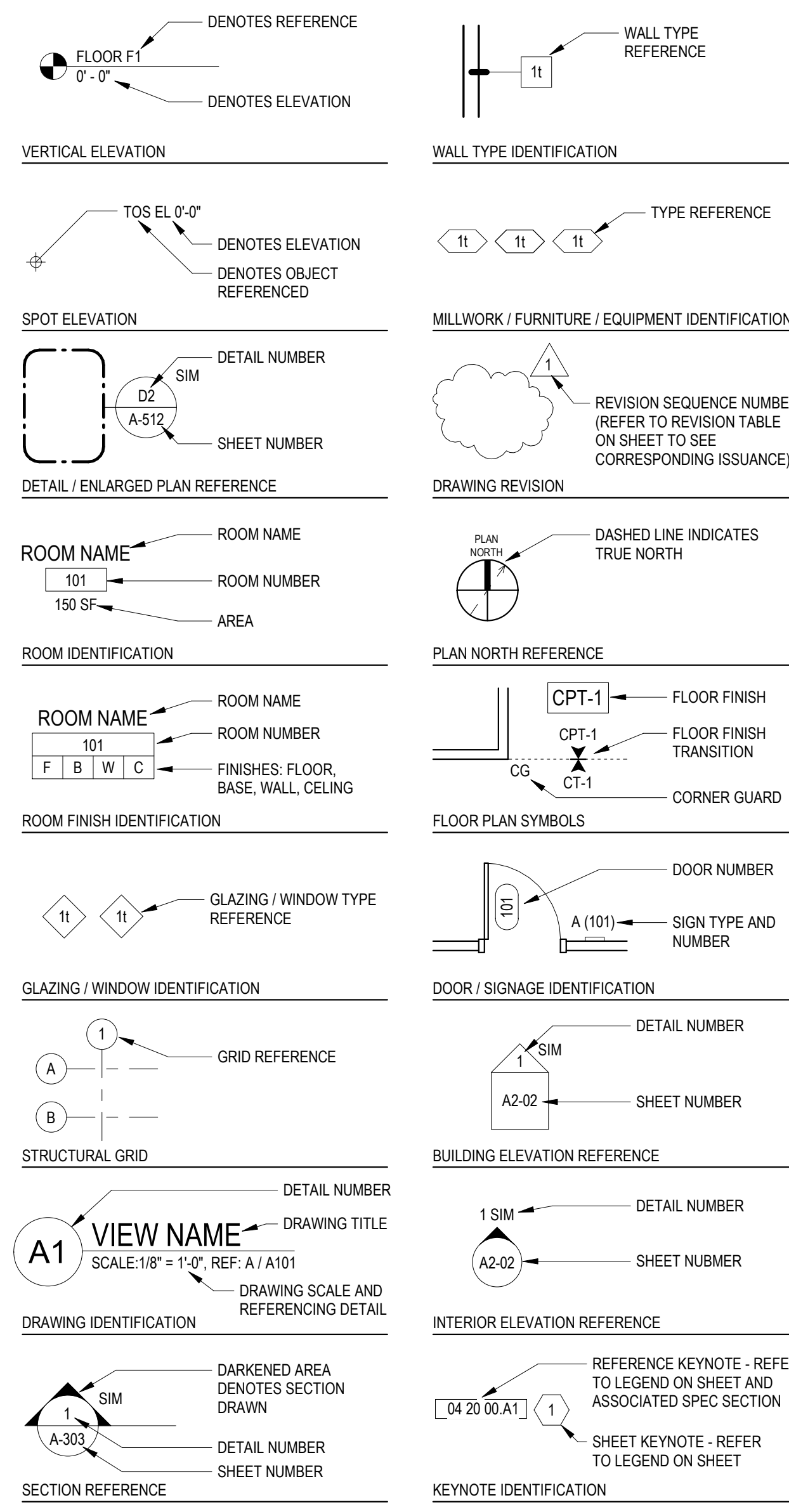
Table of abbreviations for categories M through O, including terms like MOTION SENSOR, MAINTENANCE, MATERIAL, etc.

ABBREVIATIONS

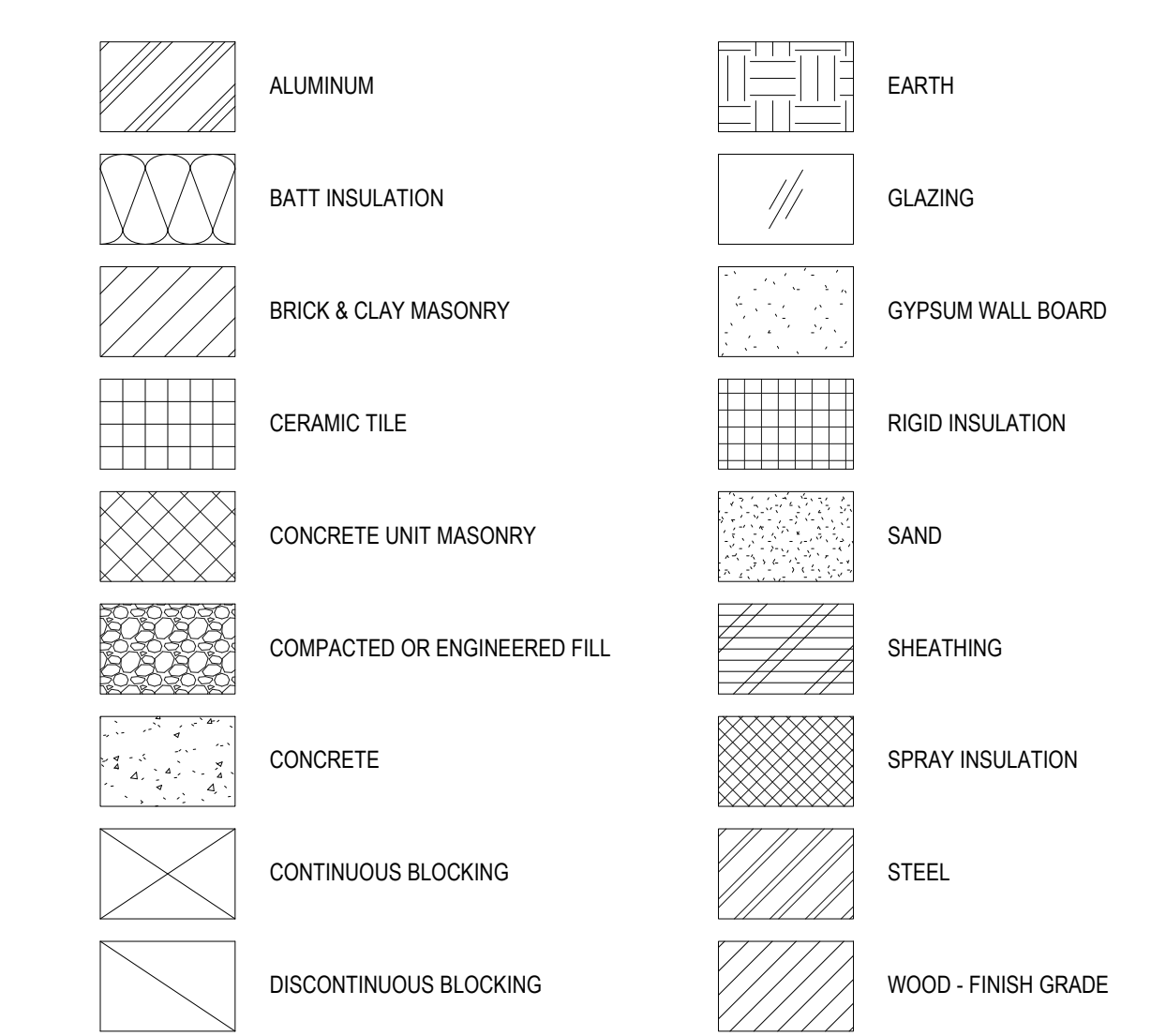
Table of abbreviations for categories S through U, including terms like SWITCH, SUPPLY AIR, SALVAGE, etc.

ABBREVIATIONS

Table of abbreviations for categories V through Y, including terms like VARIES, VINYL BASE, VEHICLE, etc.



TYPICAL SYMBOLS



MATERIAL KEY

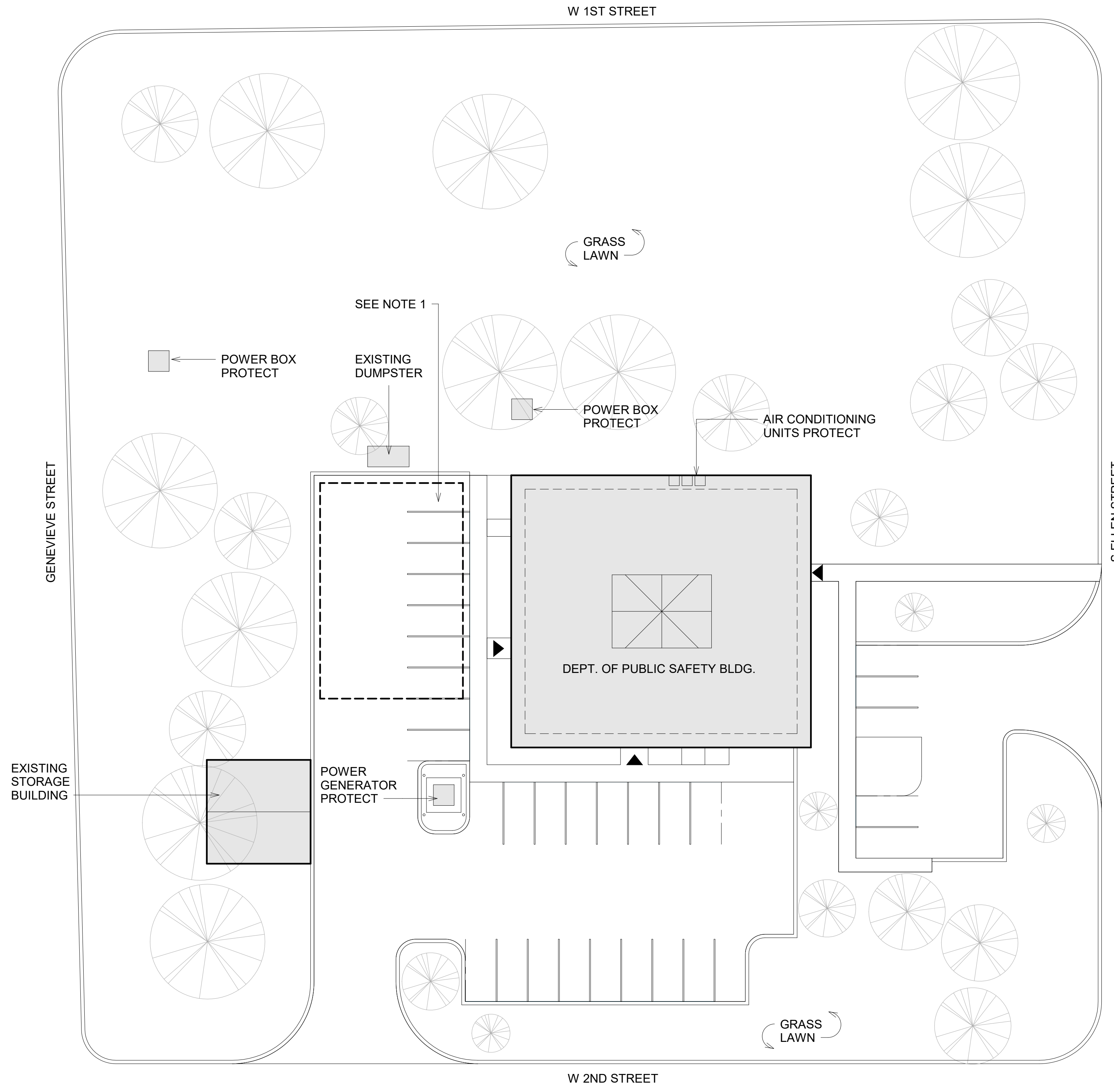


STATE OF IOWA - DAS DPS - POST 9 ROOF REPLACEMENT

MA Architecture No.: 015.20
DAS Project No.: 9174
Date: 9 SEPTEMBER 2020

Revisions table with columns for MARK, DESCRIPTION, and DATE.

CONSTRUCTION DOCUMENTS - BID SET



LEGEND

- ▲ BUILDING ENTRANCE
- ⊗ EXISTING TREE
- BOLLARD

SITE GENERAL NOTES:

1. AREA IDENTIFIED FOR CONTRACTOR USE.
2. PROTECT EXISTING ELEMENTS IDENTIFIED AND THOSE NOT IDENTIFIED DURING CONSTRUCTION.
3. PATCH WITH SOD ANY LAWN THAT IS DISTURBED DURING CONSTRUCTION.
4. DO NOT STORE MATERIALS UNDER DRIPLINE OF TREES.
5. EXISTING STORAGE GARAGE NOT PART OF PROJECT SCOPE.

A2 SITE ACCESS PLAN
1" = 20'-0"



STATE OF IOWA - DAS
DPS - POST 9 ROOF REPLACEMENT

MA Architecture No.: 015.20
 DAS Project No.: 9174
 Date: 9 SEPTEMBER 2020

Revisions	MARK	DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS - BID SET

LEGEND

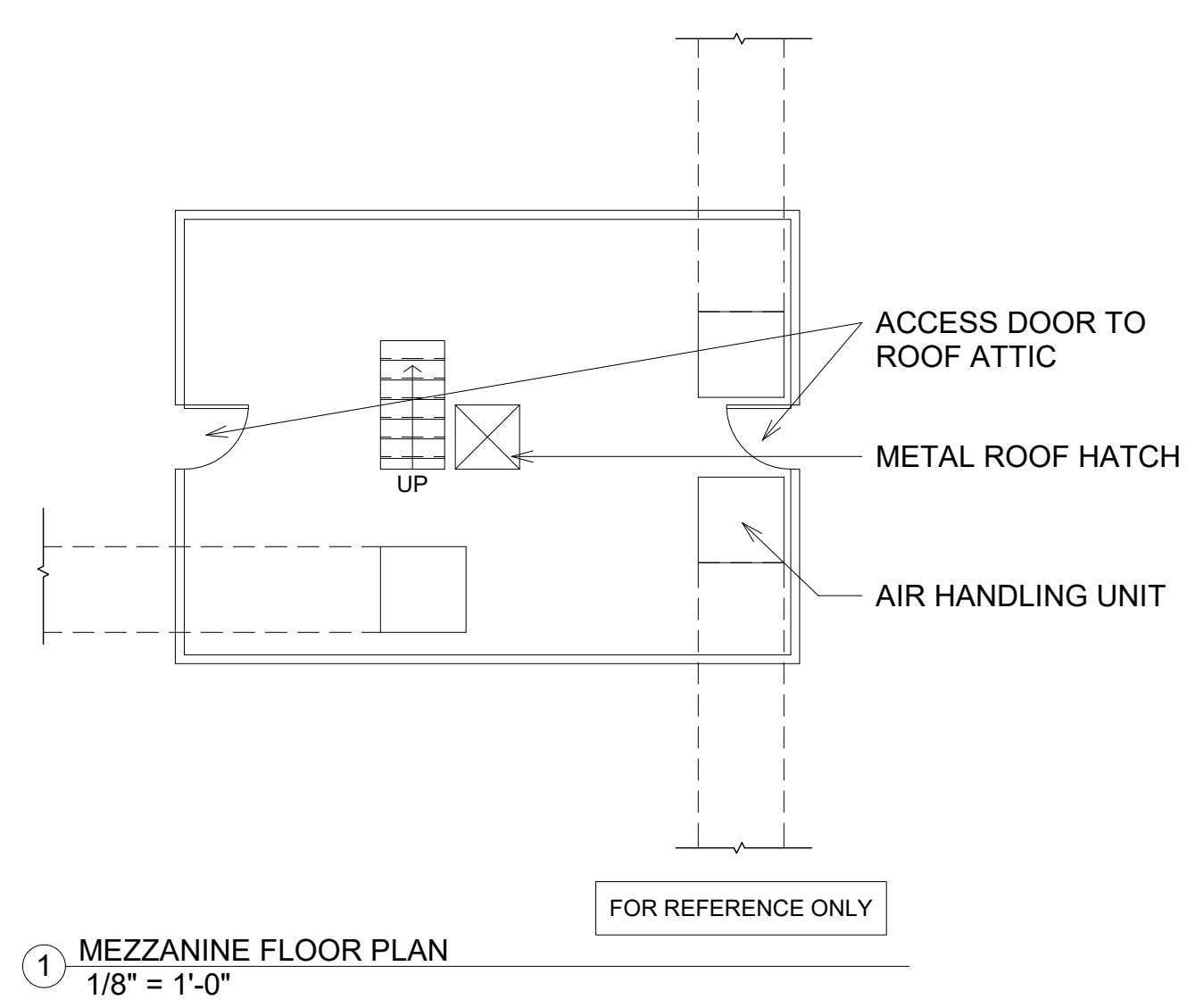
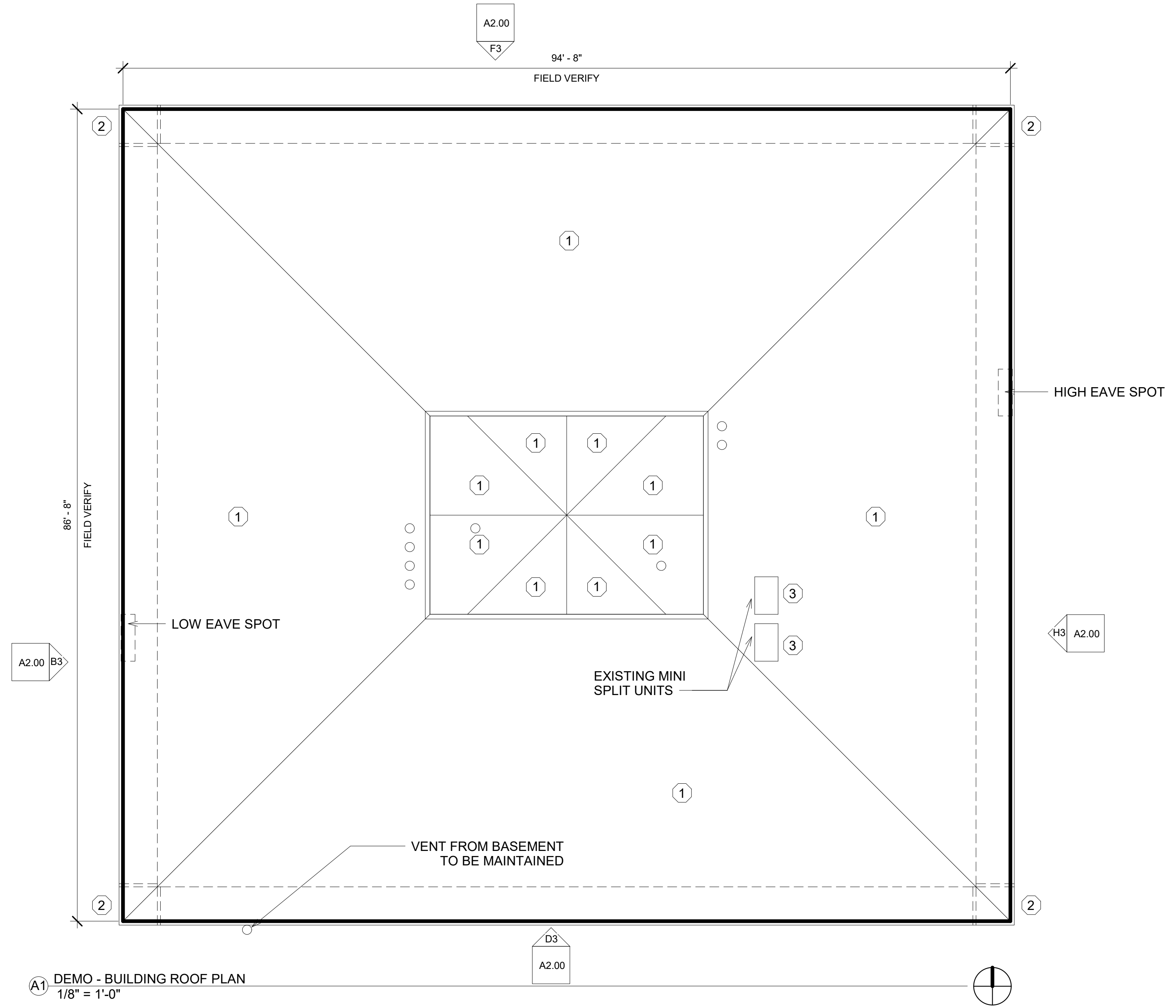
-  AIR COND. UNIT
-  EXISTING ROOF VENT

KEYNOTES:

- ① DEMOLISH SHINGLES, UNDERLAYMENT, SHEATHING AND ASSOCIATED FLASHING.
- ② EXISTING GUTTERS AND DOWNSPOUTS. REMOVE AS REQUIRED FOR INSTALLATION. RE-INSTALL AND ADJUST AS REQUIRED FOR POSITIVE DRAINAGE.
- ③ FLASHING FOR MINI SPLIT UNITS. UNMOUNT AS REQUIRED FOR NEW SHEATHING & ROOF INSTALL.

DEMOLITION GENERAL NOTES:

- 1. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING- ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO MA ARCHITECTURE WITHOUT DELAY.
- 2. THESE DEMOLITION DRAWINGS ARE FOR GENERAL INFORMATION OF EXISTING CONDITIONS AND ARE NOT INTENDED TO BE TOTALLY INCLUSIVE OF ALL DEMOLITION REQUIREMENTS. CONTRACTOR SHALL INSPECT THE SITE AND MAKE REASONABLE EFFORT TO BID ALL ITEMS NEEDING REMOVAL THAT ARE NOT SPECIFICALLY SHOWN ON THE DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION NECESSARY FOR INSTALLATION OF NEW WORK.
- 3. EXISTING ASPHALT SHINGLES, UNDERLAYMENT, PLYWOOD SHEATHING, AND ASSOCIATED FLASHING TO BE REMOVED IN ITS ENTIRETY.
- 4. REMOVE METAL GUTTERS, HANGERS, GUTTER FLASHING AND DOWNSPOUTS. SALVAGE FOR REINSTALL IN PROJECT. DO NOT DAMAGE TREATED WOOD FASCIA, GUTTERS, DOWNSPOUTS. IF DAMAGED REPLACE WITH NEW TO MATCH EXISTING AND PAINT.
- 5. UNINSTALL & REINSTALL ROOF MOUNTED MINI SPLIT UNITS AS REQUIRED FOR ROOF INSTALLATION.



STATE OF IOWA - DAS
DPS - POST 9 ROOF REPLACEMENT

MA Architecture No.: 015.20
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Date: 9 SEPTEMBER 2020

Revisions	MARK	DESCRIPTION	DATE

DEM - ROOF PLANS

LEGEND

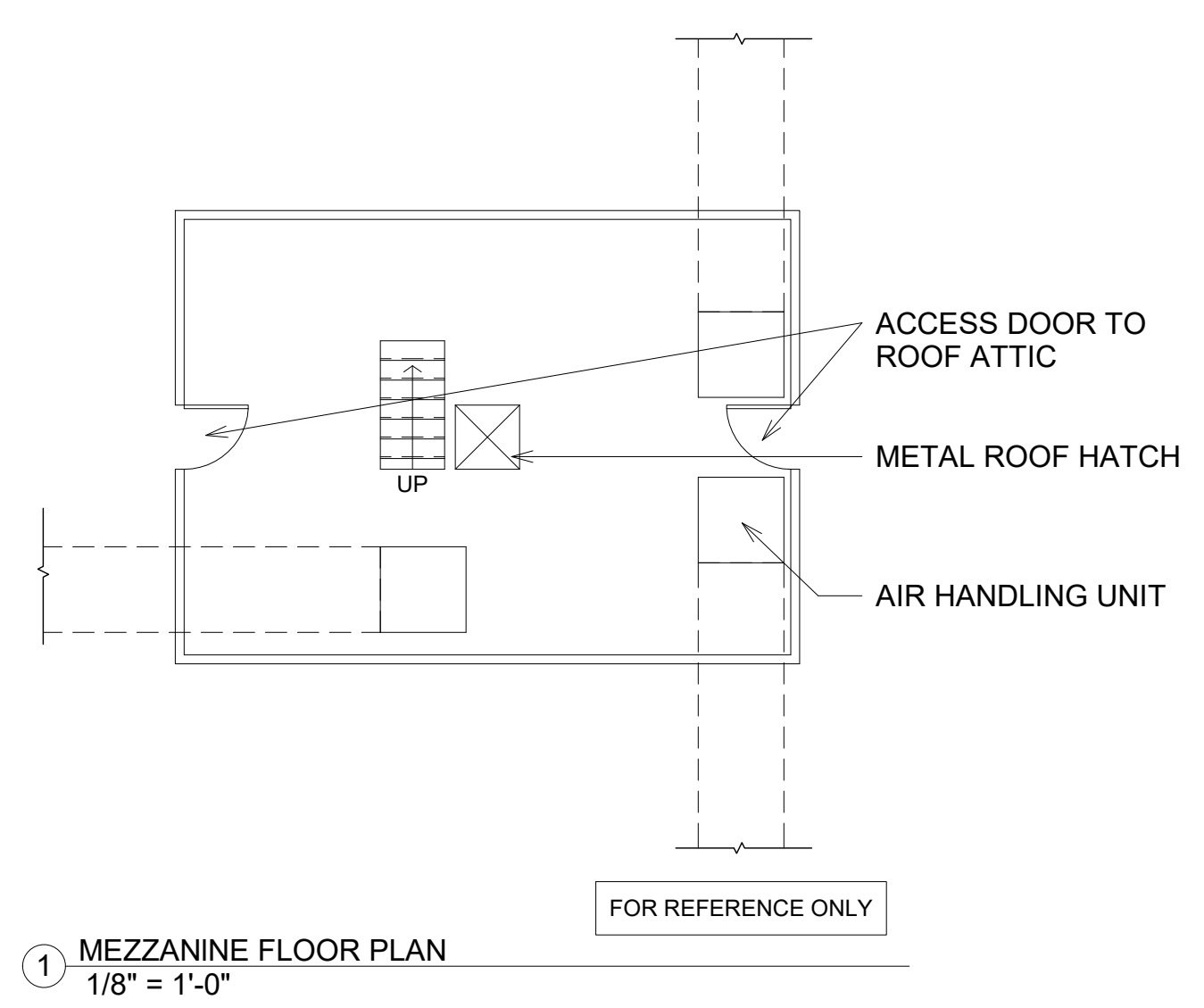
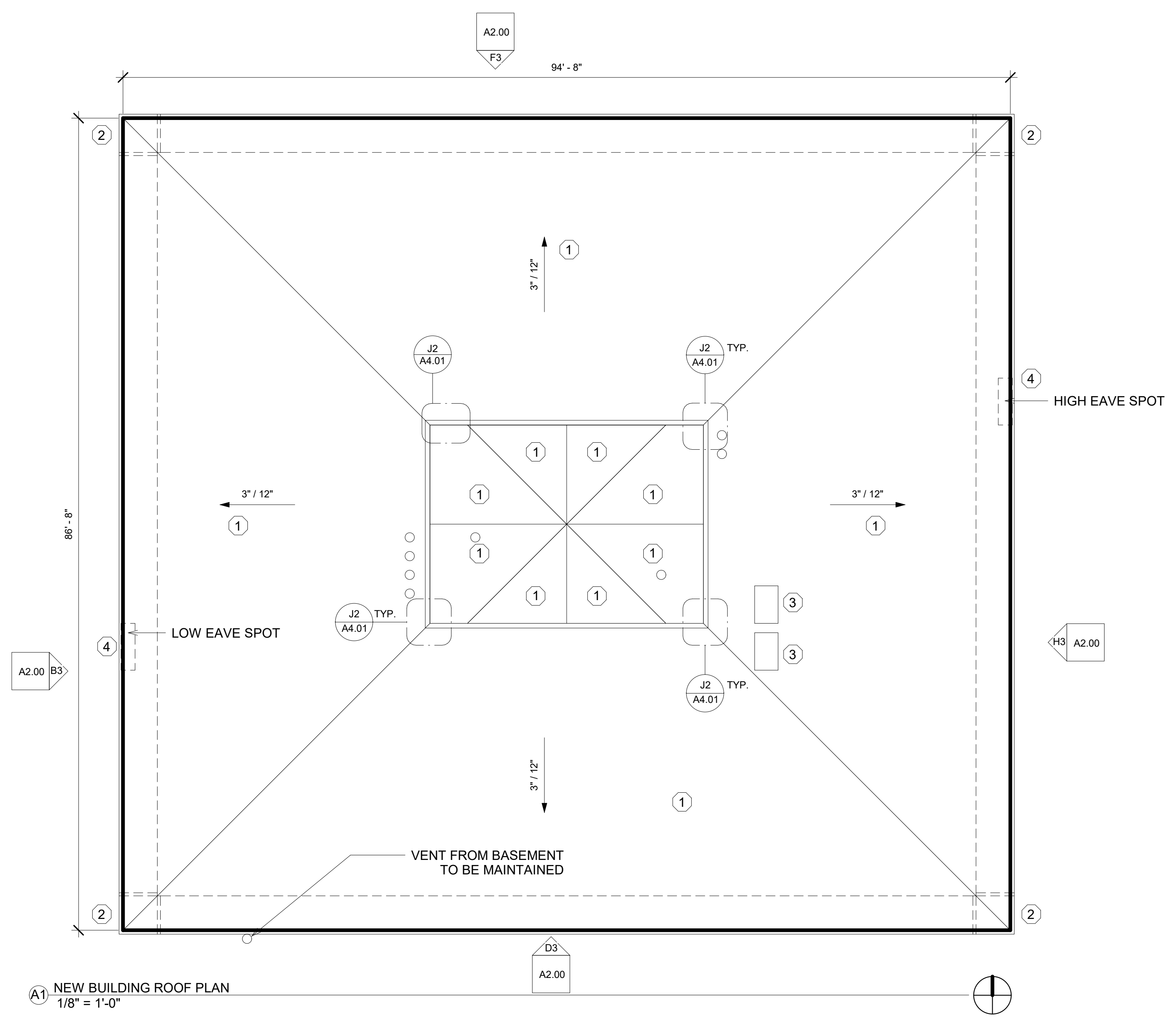
- AIR COND. UNIT
- ROOF VENT (SEE DETAIL G2 ON SHEET A4.01 FOR REQUIRED BOOT.)

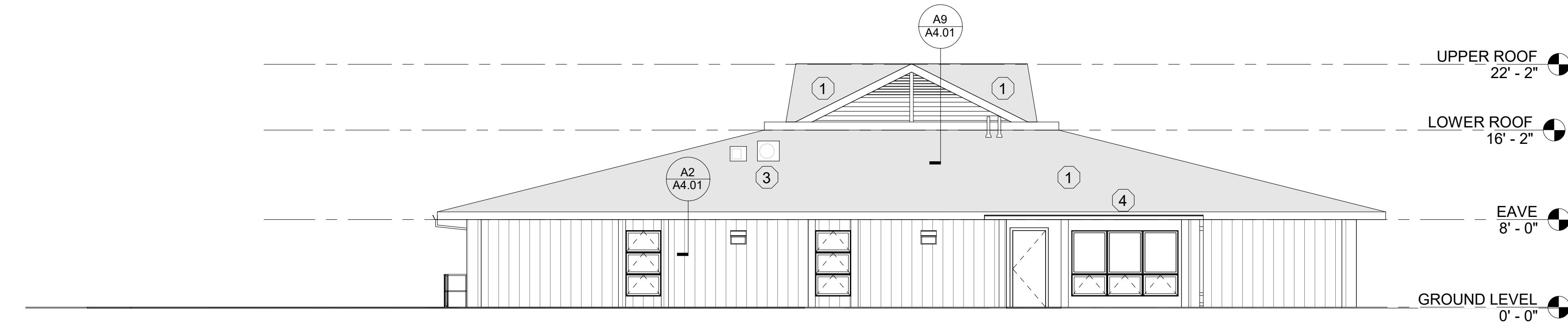
KEYNOTES:

- ① INSTALL NEW SHINGLES, UNDERLAYMENT, SHEATHING AND ASSOCIATED FLASHING.
- ② EXISTING GUTTERS AND DOWNSPOUTS. REMOVE AS REQUIRED FOR INSTALLATION. RE-INSTALL AND ADJUST AS REQUIRED FOR POSITIVE DRAINAGE.
- ③ REINSTALL EXISTING MINI SPLIT UNITS ON NEW ROOF. PROVIDE FLEXIBLE FLASHING AS REQUIRED.
- ④ REPAIR HIGH AND LOW EAVE LOCATIONS.

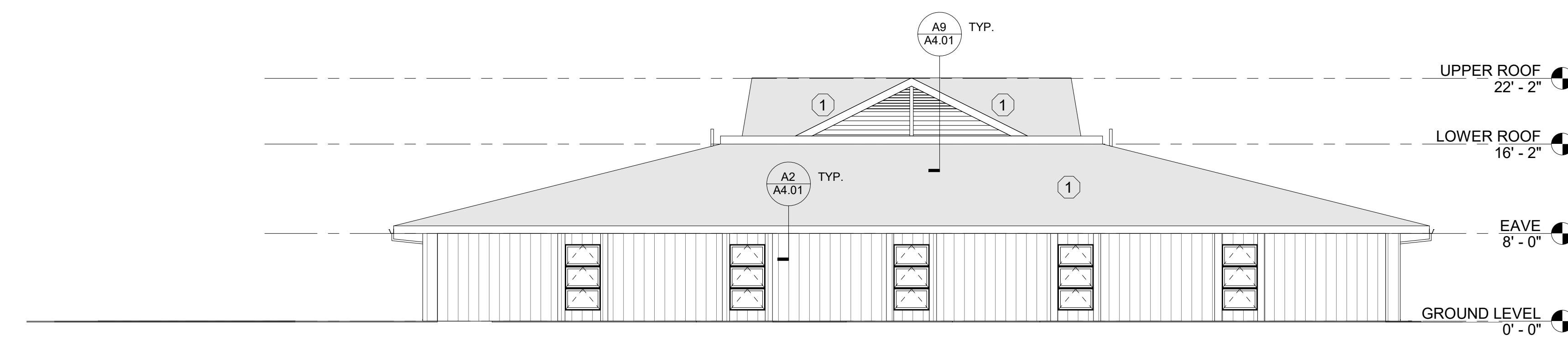
NEW GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING- ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO MA ARCHITECTURE WITHOUT DELAY.
2. CONTRACTOR IS TO VERIFY ALL EXISTING SLOPES PRIOR TO INSTALLATION OF NEW ROOFING.
3. REMOVE AND REINSTALL METAL FLASHING AS REQUIRED FOR NEW ROOF INSTALL. PROVIDE NEW IF DAMAGED DURING REMOVAL.

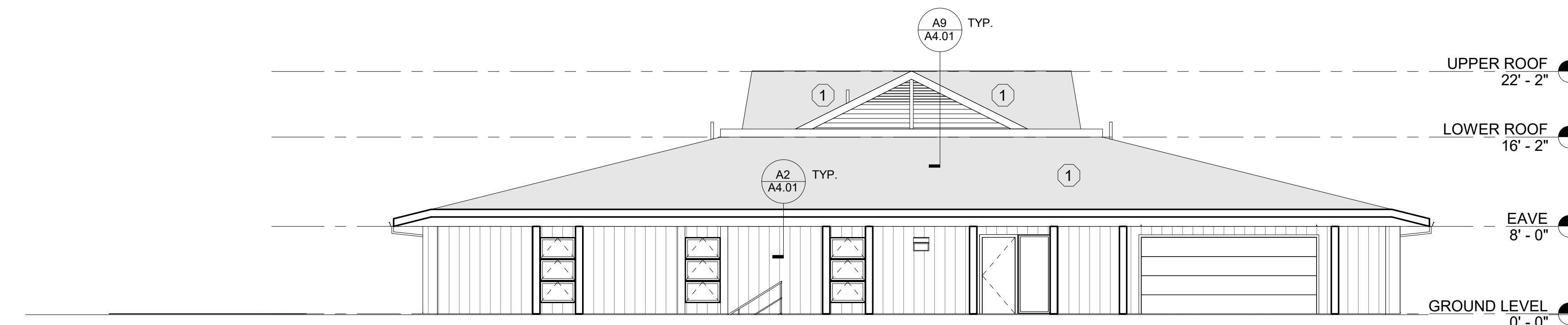




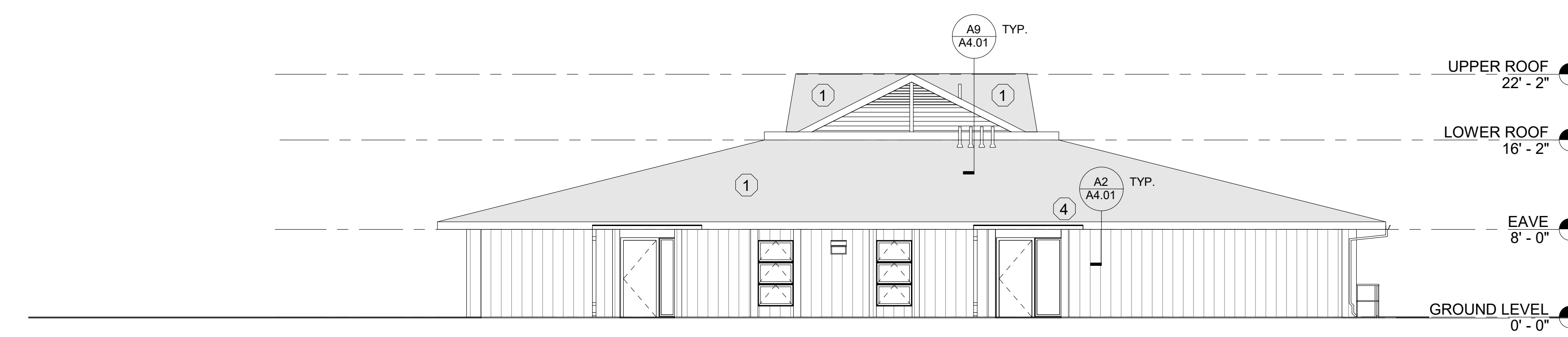
H3 EAST
1/8" = 1'-0"



F3 NORTH
1/8" = 1'-0"



D3 SOUTH
1/8" = 1'-0"



B3 WEST
1/8" = 1'-0"

NEW GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING- ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO MA ARCHITECTURE WITHOUT DELAY.
2. CONTRACTOR IS TO VERIFY ALL EXISTING SLOPES PRIOR TO INSTALLATION OF NEW ROOFING.
3. REMOVE AND REINSTALL METAL FLASHING AS REQUIRED FOR NEW ROOF INSTALL. PROVIDE NEW IF DAMAGED DURING REMOVAL.

KEYNOTES:

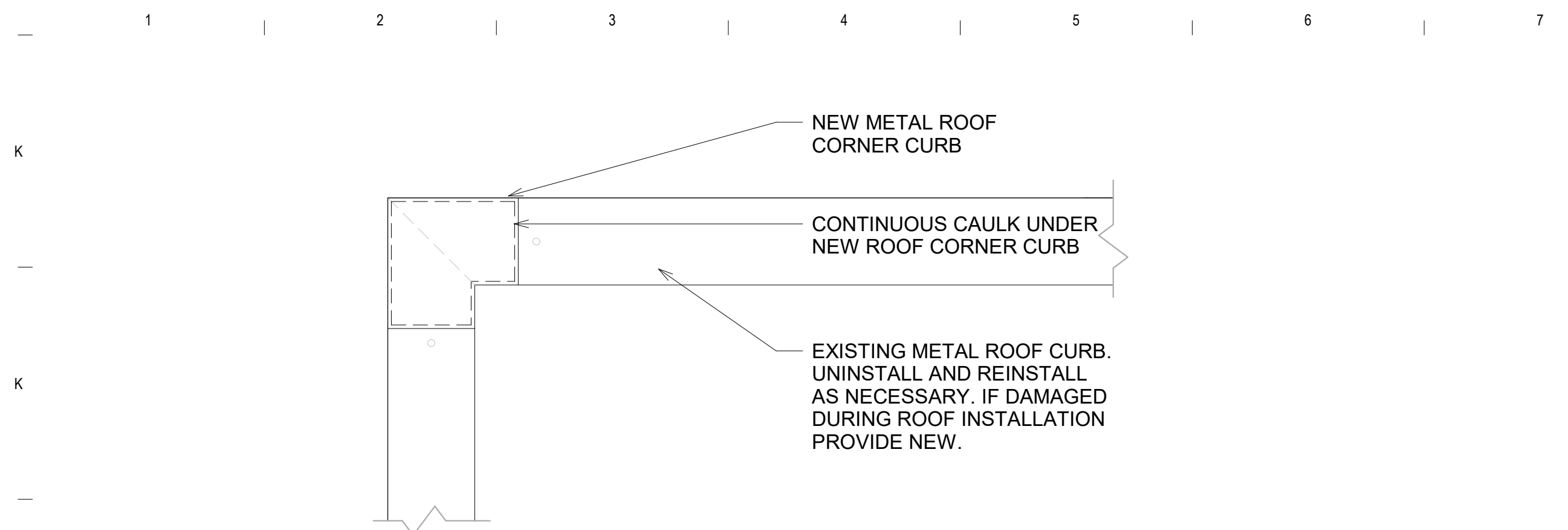
- ① INSTALL NEW SHINGLES, UNDERLAYMENT, SHEATHING AND ASSOCIATED FLASHING.
- ② EXISTING GUTTERS AND DOWNSPOUTS. REMOVE AS REQUIRED FOR INSTALLATION. RE-INSTALL AND ADJUST AS REQUIRED FOR POSITIVE DRAINAGE.
- ③ REINSTALL EXISTING MINI SPLIT UNITS ON NEW ROOF.
- ④ REPAIR HIGH AND LOW EAVE LOCATIONS.

STATE OF IOWA - DAS
DPS - POST 9 ROOF REPLACEMENT

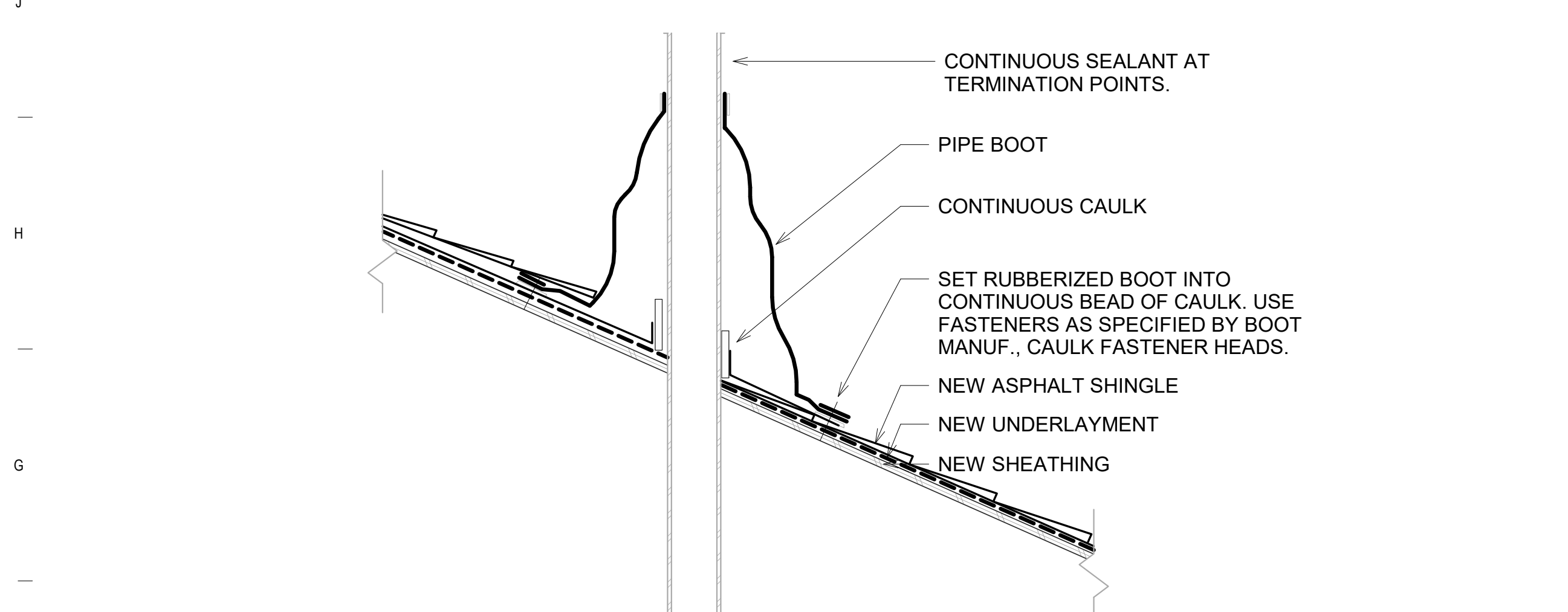
CONSTRUCTION DOCUMENTS - BID SET

MA Architecture No.: 015.20
DAS Project No.: 9174
Date: 9 SEPTEMBER 2020

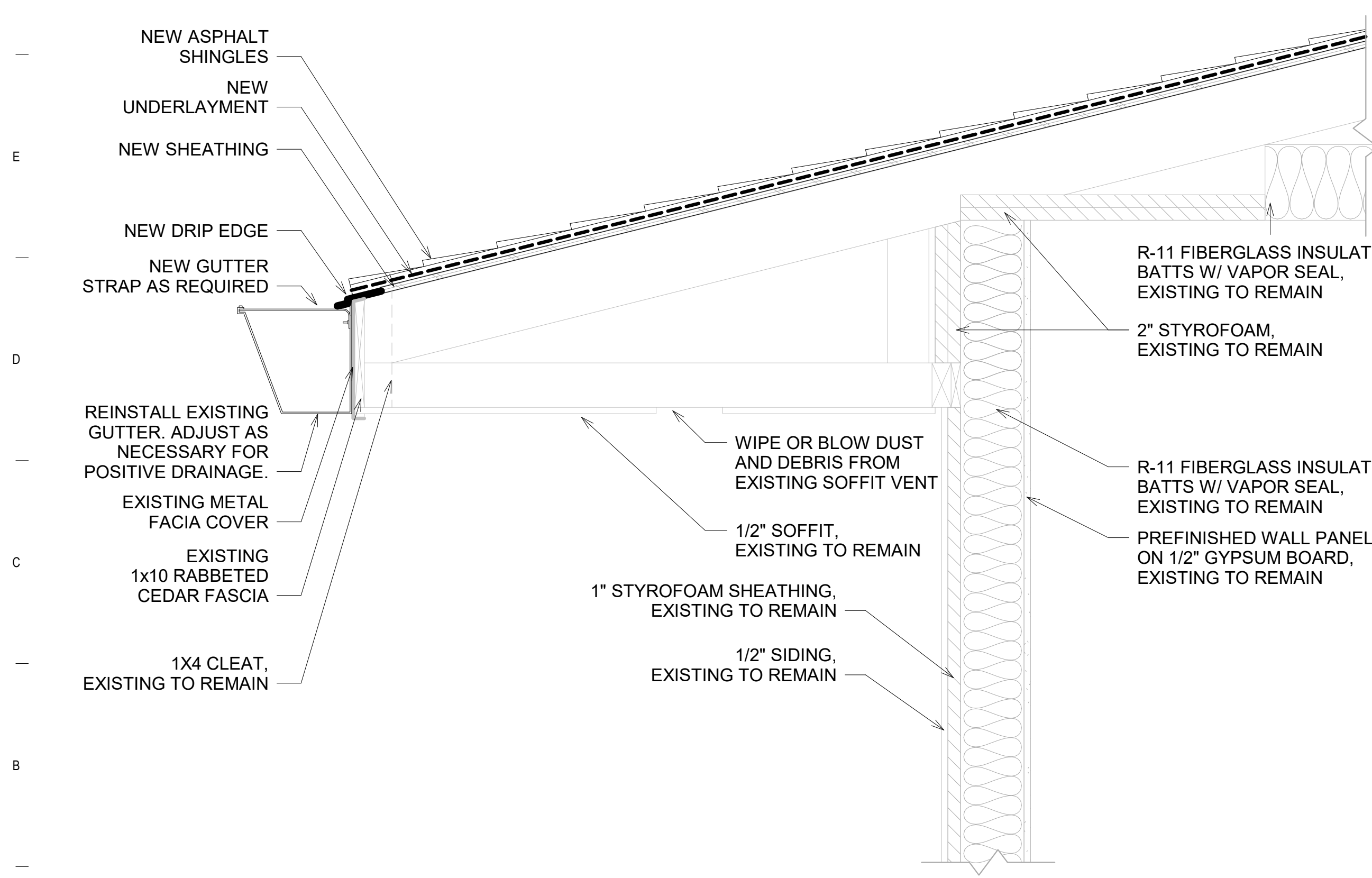
Revisions	MARK	DESCRIPTION	DATE



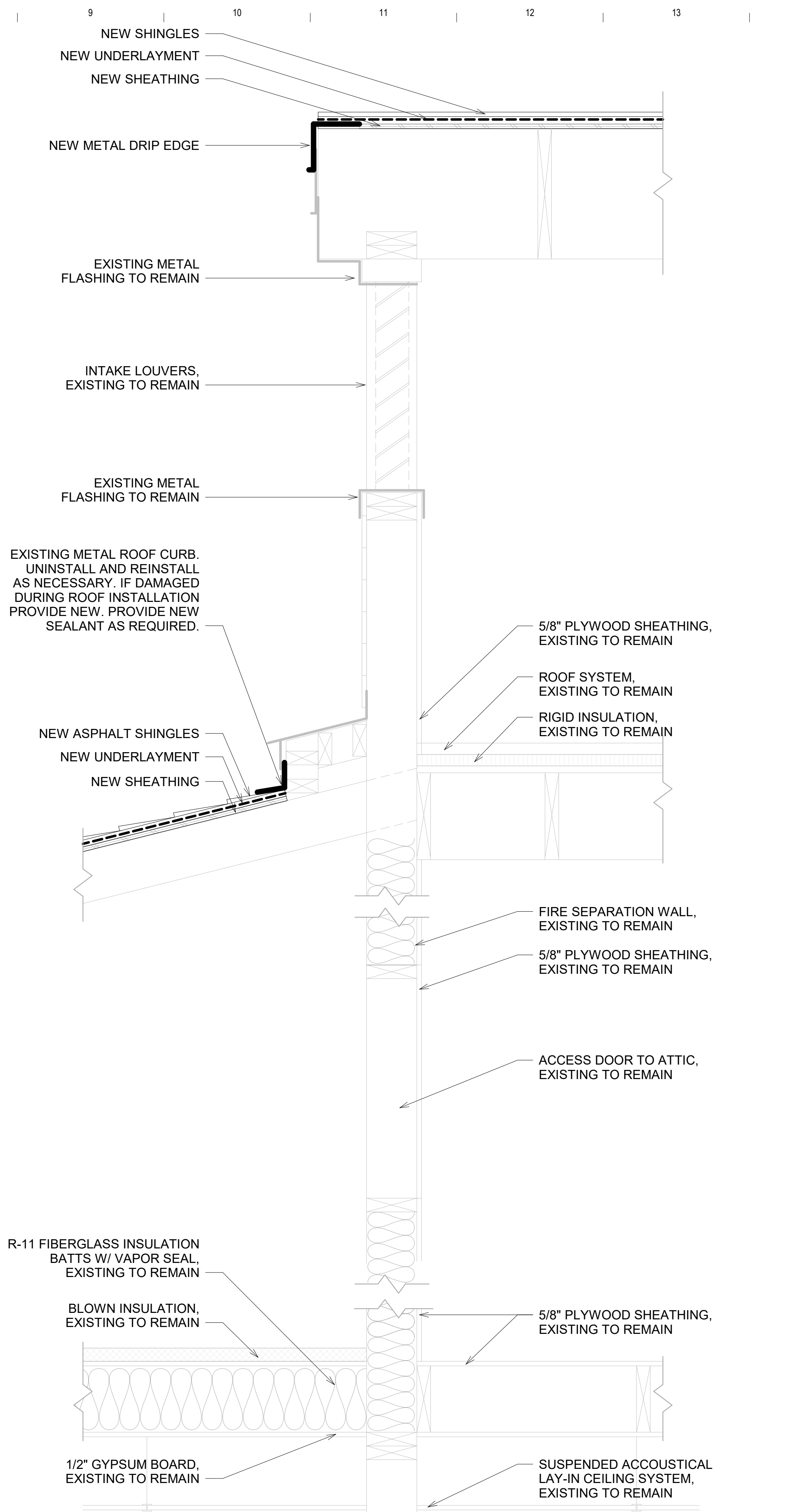
J2 DETAIL - ROOF CURB CORNER
1 1/2" = 1'-0"



F2 DETAIL SECTION - ROOF PIPE PENETRATION - TYPICAL
1 1/2" = 1'-0"



A2 DETAIL SECTION - SOFFIT
1 1/2" = 1'-0"

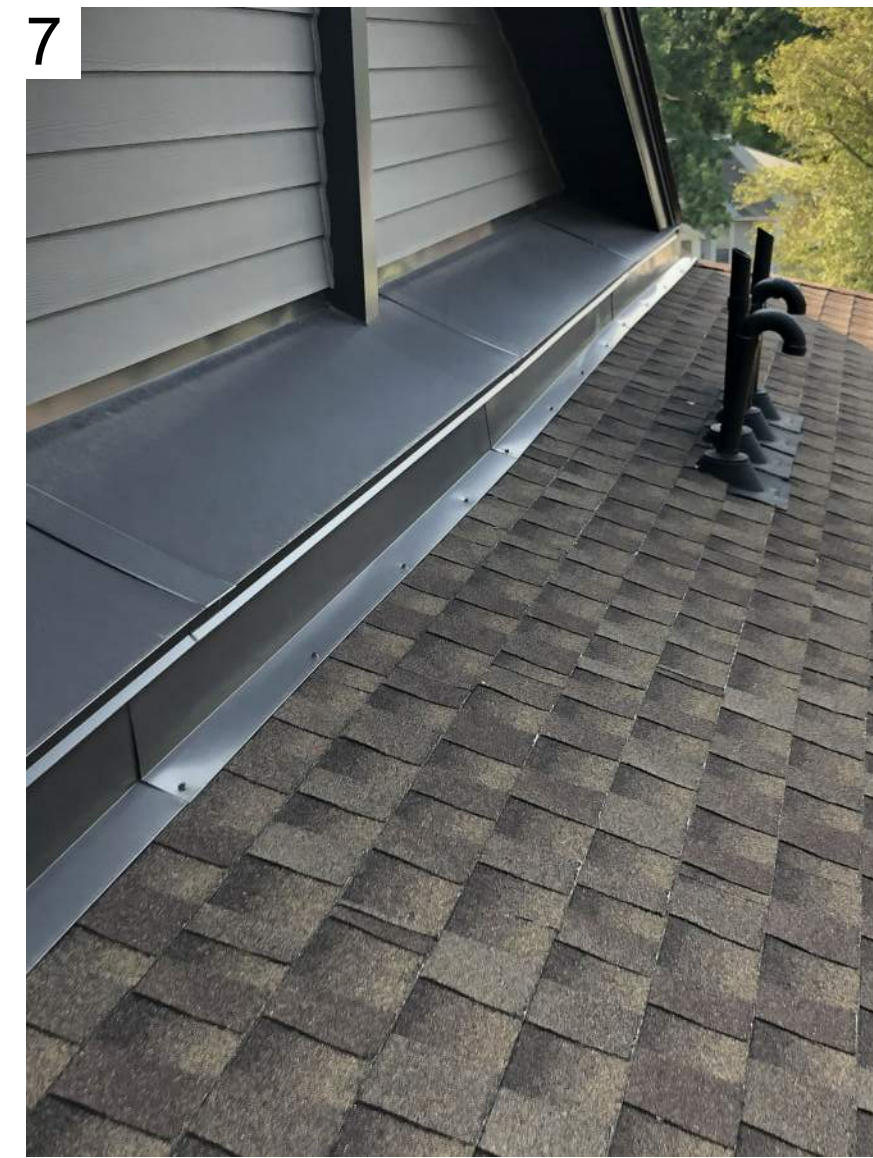
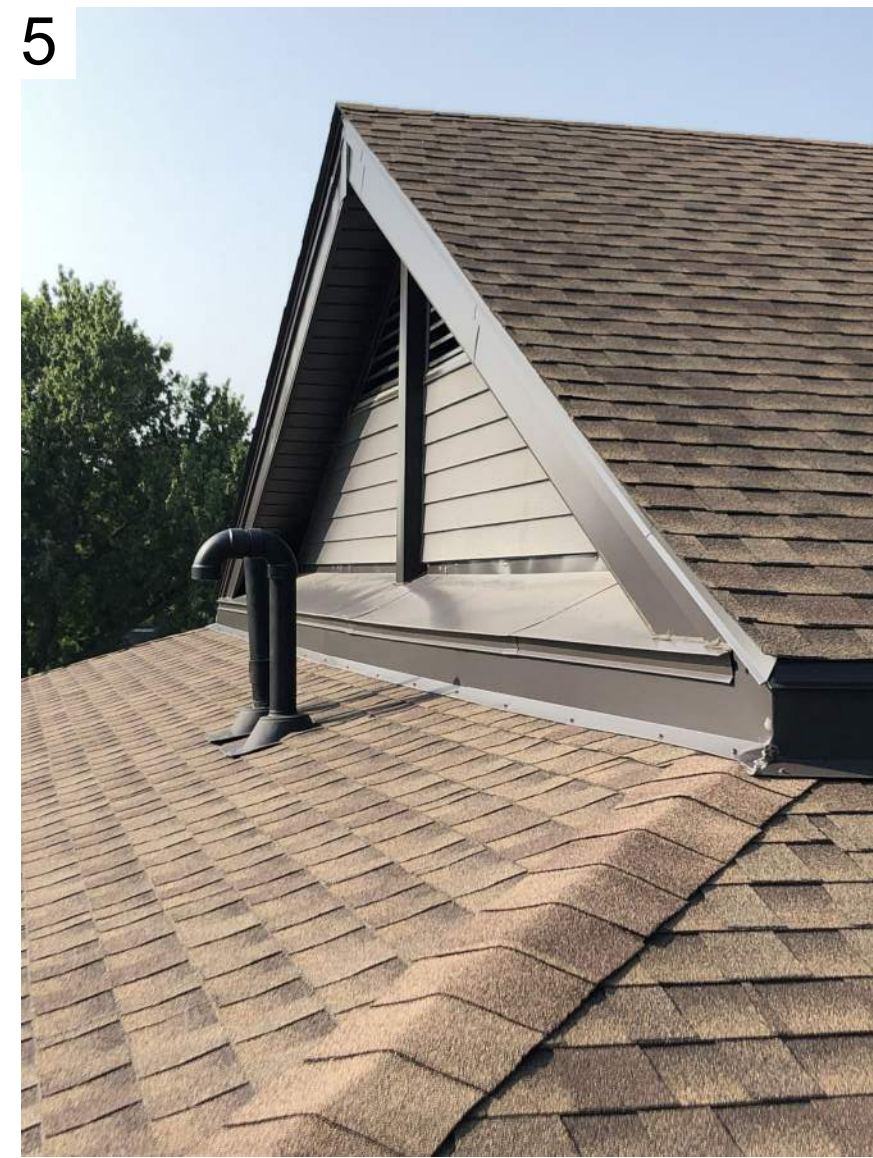


A9 DETAIL SECTION - GUTTER
1 1/2" = 1'-0"

STATE OF IOWA - DAS
DPS - POST 9 ROOF REPLACEMENT

CONSTRUCTION DOCUMENTS - BID SET

MA Architecture No.:	015.20
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Revisions	
MARK DESCRIPTION	DATE



LEGEND

- 1. EAST ELEVATION
- 2. SOUTH ELEVATION
- 3. WEST ELEVATION
- 4. NORTH ELEVATION
- 5. GABLE ROOF W/ PIPE PENETRATION
- 6. GUTTER CLOSE-UP
- 7. ROOF CURB + SHINGLES CONNECTION
- 8. ROOF CURB CORNER DETAIL



1031 7th Street
West Des Moines, Iowa 50265
Ph. 515 473 4834

STATE OF IOWA - DAS
DPS - POST 9 ROOF REPLACEMENT

CONSTRUCTION DOCUMENTS - BID SET

MA Architecture No.: 015.20
 DAS Project No.: 9174
 Date: 9 SEPTEMBER 2020

Revisions	MARK	DESCRIPTION	DATE

EXISTING PHOTOS

A9.00



Exhibit F Specifications

DPS Post 9 Roof Replacement
Iowa State Patrol District #9 Office, 1510 W 1st Street, Cedar Falls, Iowa 50613
Request for Quote RFQ917400-01

Due Friday, September 25, 2020 at 2:00 p.m. (CT)

SPECIFICATIONS

The following specifications dated 9/9/2020 were developed by MA Architecture.

SECTION 02 41 00
SELECTIVE DEMOLITION

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Selective demolition of building elements for alteration purposes.

1.02 RELATED REQUIREMENTS

- A. Section 01 12 00 - Contract Summary: Limitations on Contractor's use of site and premises, sequencing and staging requirements, description of items to be salvaged or removed for reuse by Contractor.
- B. Section 01 50 00 - Temporary Facilities and Controls: Site fences, security, protective barriers, and waste removal.
- C. Section 01 60 00 - Product Requirements: Handling and storage of items removed for salvage and relocation.
- D. Section 01 73 00 - Execution Requirements: Project conditions; protection of bench marks, survey control points, and existing construction to remain; reinstallation of removed products; temporary bracing and shoring.

1.03 REFERENCE STANDARDS

- A. 29 CFR 1926 - U.S. Occupational Safety and Health Standards.
- B. NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations.

PART 2 PRODUCTS -- NOT USED

PART 3 EXECUTION

3.01 SCOPE

- A. Remove portions of existing buildings as indicated in the Demolition Drawings.
- B. Remove other items indicated, for salvage, including:
 - 1. Gutters and downspouts, for reinstallation (if required).
 - 2. Rooftop-mounted HVAC equipment.

3.02 GENERAL PROCEDURES AND PROJECT CONDITIONS

- A. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
 - 1. Obtain required permits.
 - 2. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential collapse of unstable structures.
 - 3. Provide, erect, and maintain temporary barriers and security devices.
 - 4. Use physical barriers to prevent access to areas that could be hazardous to workers or the public.
 - 5. Conduct operations to minimize effects on and interference with adjacent structures and occupants.
 - 6. Do not close or obstruct roadways or sidewalks without permit.
 - 7. Conduct operations to minimize obstruction of public and private entrances and exits; do not obstruct required exits at any time; protect persons using entrances and exits from removal operations.
 - 8. Obtain written permission from owners of adjacent properties when demolition equipment will traverse, infringe upon or limit access to their property.
- B. Do not begin removal until receipt of notification to proceed from Owner.
- C. Do not begin removal until built elements to be salvaged or relocated have been removed.
- D. Protect existing structures and other elements that are not to be removed.

1. Provide bracing and shoring.
2. Prevent movement or settlement of adjacent structures.
3. Stop work immediately if adjacent structures appear to be in danger.

3.03 SELECTIVE DEMOLITION FOR ALTERATIONS

- A. Drawings showing existing construction and utilities are based on casual field observation only.
 1. Verify that construction and utility arrangements are as indicated.
 2. Report discrepancies to Architect before disturbing existing installation.
 3. Beginning of demolition work constitutes acceptance of existing conditions that would be apparent upon examination prior to starting demolition.
- B. Maintain weatherproof exterior building enclosure except for interruptions required for replacement or modifications; take care to prevent water and humidity damage.
- C. Remove existing work as indicated and as required to accomplish new work.
 1. Remove rotted wood, corroded metals, and deteriorated masonry and concrete; replace with new construction specified.
 2. Remove items indicated on drawings.
 3. Salvage items indicated on drawings.
- D. Protect existing work to remain.
 1. Prevent movement of structure; provide shoring and bracing if necessary.
 2. Perform cutting to accomplish removals neatly and as specified for cutting new work.
 3. Repair adjacent construction and finishes damaged during removal work.
 4. Patch as specified for patching new work.

3.04 DEBRIS AND WASTE REMOVAL

- A. Remove debris, junk, and trash from site.
- B. Leave site in clean condition, ready for subsequent work.

END OF SECTION

SECTION 06 10 00
ROUGH CARPENTRY

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Sheathing.
- B. Roofing nailers.
- C. Preservative treated wood materials.
- D. Concealed wood blocking, nailers, and supports.

1.02 REFERENCE STANDARDS

- A. AWPA U1 - Use Category System: User Specification for Treated Wood.
- B. PS 1 - Structural Plywood.
- C. PS 2 - Performance Standard for Wood-Based Structural-Use Panels.
- D. PS 20 - American Softwood Lumber Standard.

1.03 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide technical data on panel products.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. General: Cover wood products to protect against moisture. Support stacked products to prevent deformation and to allow air circulation.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

- A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.
 - 1. Species: Douglas Fir-Larch, unless otherwise indicated.
 - 2. If no species is specified, provide any species graded by the agency specified; if no grading agency is specified, provide lumber graded by any grading agency meeting the specified requirements.
 - 3. Grading Agency: Any grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee (www.alsc.org) and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.
 - 4. Lumber of other species or grades is acceptable provided structural and appearance characteristics are equivalent to or better than products specified.
- B. Engineered wood products containing added urea-formaldehyde are not permitted.

2.02 DIMENSION LUMBER FOR CONCEALED APPLICATIONS

- A. Sizes: Nominal sizes as indicated on drawings, S4S.
- B. Moisture Content: S-dry or MC19.
- C. Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring:
 - 1. Lumber: S4S, No. 1 or Construction Grade.
 - 2. Boards: Standard or No. 3.

2.03 CONSTRUCTION PANELS

- A. Roof Sheathing: Any PS 2 type, APA rated Structural I Sheathing.
 - 1. Bond Classification: Exterior.
 - 2. Span Rating: 40/20.
 - 3. Performance Category: 5/8 PERF CAT.

4. Contractor to verify existing sheathing thickness, believed to be 1/2"; any roof sheathing replacement is to be done with thicker materials than existing to avoid sagging.
- B. Plywood Applications:
1. Plywood Concealed From View But Located Within Exterior Enclosure: PS 1, C-C Plugged or better, Exterior grade.

2.04 ACCESSORIES

- A. Fasteners and Anchors:
1. Metal and Finish: Stainless steel for high humidity and preservative-treated wood locations, unfinished steel elsewhere.
 2. Wood Screws: ASME B18.6.1.
 3. Lag Bolts: ASME B18.2.1
 4. Power Driven Fasteners: Fastener systems with an evaluation report acceptable to authorities having jurisdiction, based on ACC-ES AC70.

2.05 FACTORY WOOD TREATMENT

- A. Treated Lumber and Plywood: Comply with requirements of AWPA U1 - Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.
1. Preservative-Treated Wood: Provide lumber and plywood marked or stamped by an ALSC-accredited testing agency, certifying level and type of treatment in accordance with AWPA standards.

PART 3 EXECUTION

3.01 PREPARATION

- A. Coordinate installation of rough carpentry members specified in other sections.

3.02 INSTALLATION - GENERAL

- A. Select material sizes to minimize waste.
- B. Reuse scrap to the greatest extent possible; clearly separate scrap for use on site as accessory components, including: shims, bracing, and blocking.
- C. Where treated wood is used on interior, provide temporary ventilation during and immediately after installation sufficient to remove indoor air contaminants.

3.03 INSTALLATION OF CONSTRUCTION PANELS

- A. Roof Sheathing: Secure panels with long dimension perpendicular to framing members, with ends staggered and over firm bearing.
1. Nail panels to framing; staples are not permitted.

3.04 TOLERANCES

- A. Variation from Plane (Other than Floors): 1/4 inch in 10 feet maximum, and 1/4 inch in 30 feet maximum.

3.05 CLEANING

- A. Waste Disposal:
1. Comply with applicable regulations.
 2. Do not burn scrap on project site.
 3. Do not burn scraps that have been pressure treated.
 4. Do not send materials treated with pentachlorophenol, CCA, or ACA to co-generation facilities or "waste-to-energy" facilities.
- B. Do not leave any wood, shavings, sawdust, etc. on the ground or buried in fill.
- C. Prevent sawdust and wood shavings from entering the storm drainage system.

END OF SECTION

SECTION 07 01 50.19
PREPARATION FOR RE-ROOFING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Removal of existing roofing system in preparation for a new roofing system.
- B. Temporary roofing protection.

1.02 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate with affected mechanical and electrical work associated with roof penetrations.
- B. Preinstallation Meeting: Convene before starting work of this section.
 - 1. Meeting Agenda: Provide agenda to participants prior to meeting in preparation for discussions on the following:
 - a. Removal and installation schedule.
 - b. Necessary preparatory work.
 - c. Protection before, during, and after roofing system installation.
 - d. Removal of existing roofing system.
 - e. Installation of new roofing system.
 - f. Temporary roofing and daily terminations.
 - g. Transitions and connection to and with other work.
- C. Schedule work to coincide with commencement of installation of new roofing system.

1.03 DELIVERY, STORAGE, AND HANDLING

- A. Ensure storage and staging of materials does not exceed static and dynamic load-bearing capacities of roof decking.

1.04 FIELD CONDITIONS

- A. Existing Roofing System: Asphalt shingle roofing.
- B. Maintain continuous temporary protection prior to and during installation of new roofing system.
- C. Owner will occupy building areas directly below re-roofing area.
 - 1. Provide Owner with at least 48 hours written notice of roofing activities that may affect their operations and to allow them to prepare for upcoming activities as necessary.
 - 2. Do not disrupt Owner's operations or activities.
 - 3. Maintain access of Owner's personnel to corridors, existing walkways, and adjacent buildings.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Temporary Protection:
 - 1. Contractor's responsibility to select appropriate materials for temporary protection of roofing areas as determined necessary for this work.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that existing roof surface has been cleared of materials being removed from existing roofing system and ready for next phase of work as required.

3.02 PREPARATION

- A. Sweep roof surface clean of loose matter.
- B. Remove loose refuse and dispose of properly off-site.

3.03 MATERIAL REMOVAL

- A. Remove only existing roofing materials that can be replaced with new materials as the weather will permit.
- B. Remove shingles and underlayment and and replace damaged sheathing as required to provide firm smooth surface for new roof.

3.04 INSTALLATION

- A. Coordinate scope of this work with requirements for installation of new roofing system, refer to Section 07 31 13 for additional requirements.

3.05 PROTECTION

- A. Provide temporary protective sheeting over uncovered deck surfaces.
- B. Provide for surface drainage from sheeting to existing drainage facilities.

END OF SECTION

SECTION 07 31 13
ASPHALT SHINGLES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Asphalt shingle roofing.
- B. Flexible sheet membranes for eave protection, underlayment, valley protection, and material transitions.
- C. Associated flashings and accessories.

1.02 RELATED REQUIREMENTS

- A. Section 02 41 00 - Demolition: removal of existing roof sheathing, if required.
- B. Section 06 10 00 - Rough Carpentry: Roof sheathing.
- C. Section 07 01 50.19 - Preparation for Re-Roofing: removal of existing asphalt shingles for full replacement.
- D. Section 07 62 00 - Sheet Metal Flashing and Trim: Head, cap, stepped and base flashings; miscellaneous metal trim.

1.03 REFERENCE STANDARDS

- A. ASTM D226/D226M - Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing.
- B. ASTM D1970/D1970M - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection.
- C. ASTM D3462/D3462M - Standard Specification for Asphalt Shingles Made From Glass Felt and Surfaced with Mineral Granules.
- D. ASTM D4586/D4586M - Standard Specification for Asphalt Roof Cement, Asbestos-Free.
- E. ASTM D7158/D7158M - Standard Test Method for Wind Resistance of Asphalt Shingles (Uplift Force/Uplift Resistance Method).
- F. ASTM E108 - Standard Test Methods for Fire Tests of Roof Coverings.
- G. ASTM F1667 - Standard Specification for Driven Fasteners: Nails, Spikes, and Staples.
- H. NRCA (RM) - The NRCA Roofing Manual.
- I. UL (DIR) - Online Certifications Directory.

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data indicating material characteristics and performance criteria.
 - 1. Shingles
 - 2. Protection Membrane
 - 3. Underlayment
 - 4. Flexible Flashing
 - 5. Ridge Vents
 - 6. Metal Flashings (drip edge)
- C. Shop Drawings: sketch showing extents of protection membrane and ridge vents.
- D. Samples: Submit two samples of each shingle color indicating color range and finish texture/pattern; for color selection.
- E. Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
 - 1. 50-year non-pro-rated manufacturer's warranty.
 - 2. 10-year workmanship warranty backed by the shingle manufacturer.

1.05 QUALITY ASSURANCE

- A. Installer Requirements: Installer shall be a factory-certified contractor who can provide warranties as noted below.
- B. Products Required to Comply with Fire or Wind Resistance Criteria: UL (DIR) listed and labeled.
- C. Perform Work in accordance with the recommendations of NRCA Steep Roofing Manual.

1.06 FIELD CONDITIONS

- A. Do not install shingles or eave protection membrane when surface temperatures are below 45 degrees F.
 - 1. With Owner's approval, shingles may be installed below 45 degrees F, by certified installers only, following manufacturer's published recommendations to maintain warranty.
 - a. GAF TECHNICAL ADVISORY BULLETINS; "Hand-Sealing Shingles" and "Temperature Extremes & Fiberglass Asphalt Shingles", current editions.
- B. Do not install shingle, underlayment or flexible flashing protection membrane when raining, or rain is likely.

1.07 WARRANTY

- A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.
- B. Warranty: 50-year non-pro-rated manufacturer's warranty and 10-year workmanship warranty backed by the shingle manufacturer.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Asphalt Shingles:
 - 1. Atlas Roofing Corporation: www.atlasroofing.com/#sle.
 - 2. CertainTeed Corporation; www.certainteed.com
 - 3. GAF: www.gaf.com/sle.
 - 4. Owens Corning Corp: www.owenscorning.com.
 - 5. Tamko Building Products, Inc; www.tamko.com
 - 6. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 ASPHALT SHINGLES

- A. Asphalt Shingles: Asphalt-coated glass felt, mineral granule surfaced, complying with ASTM D3462/D3462M.
 - 1. Fire Resistance: Class A, complying with ASTM E108.
 - 2. Wind Resistance (Uplift): Class G, when tested in accordance with ASTM D7158/D7158M.
 - 3. Warranted Wind Speed: Not less than tested wind resistance.
 - 4. Algae Resistant.
 - 5. Self-sealing type.
 - 6. Style: Architectural, laminated.
 - 7. Color: As selected by Architect.

2.03 SHEET MATERIALS

- A. Protection Membrane: Self-adhering polymer-modified asphalt sheet complying with ASTM D 1970; 40 mil total thickness; with strippable treated release paper and polyethylene sheet top surface.
 - 1. Length: Roll.
 - 2. Width: 36 inches.
 - 3. Product:
 - a. Owens Corning Corporation: WeatherLock G Granulated Waterproofing Underlayment

- b. GAF Materials Corporation: StormGuard (smooth) or Weather Watch (mineral)
 - c. Grace Construction Products: Ice & Water Shield (smooth)
 - d. Substitutions: See Section 01 60 00 - Product Requirements.
- B. Underlayment: Asphalt-saturated organic roofing felt, unperforated, complying with ASTM D226/D226M, Type II ("No.30").
- C. Flexible Flashing: Self-adhering polymer-modified asphalt sheet complying with ASTM D1970/D1970M; 40 mil total thickness; with strippable treated release paper and polyethylene sheet top surface.

2.04 ACCESSORIES

- A. Roofing Nails: Standard round wire shingle type, galvanized steel or stainless steel, minimum 3/8 inch head diameter, 12 gage, 0.109 inch nail shank diameter, 1-1/2 inch long and conforming to ASTM F1667.
- B. Plastic Cement: ASTM D4586/D4586M, asphalt roof cement.
- C. Piping Boots: TPE or lead material compatible with asphalt shingles; self-sealing design; fits 0" to 6" outside pipe diameter; designed to maintain a minimum of 1/2" continuous contact with protruding pipe or roof penetration to be flashed; warranted for a minimum of 50-years.
- D. Ridge Vents: Plastic, extruded with vent openings that do not permit direct water or weather entry; flanged to receive shingles.
- 1. Application: all ridges, continuous length of ridge
 - 2. Width: 11 inches, unless indicated otherwise.
 - 3. Watertightness: Passes the 110 mph wind-driven rain test.
 - 4. Net Free Area: 18 sq in per lineal ft (381 sq cm per lineal m).
 - 5. Designed to prevent snow infiltration and insect entry
 - 6. Flexible at ridge point to adjust from 3:12 to 16:12 slope.
 - 7. Product:
 - a. Cor-A-Vent: X-5 X-Treme
 - b. GAF/ELK Cobra Snow Country by GAF Materials Corporation: www.gaf.com.
 - c. Owens Corning: VentSure Rigid Roll Ridge Vents with Weather PROtector
 - d. Substitutions: See Section 01 60 00 - Product Requirements.
- E. Metal Flashings: see Section 07 62 00 - Sheet Metal Flashings and Trim
- 1. Drip Edge: Pre-finished aluminum, 0.019 inch thick, 1-3/4 inch wide.
 - a. Product: "Overhang Drip Edge ODE" manufactured by Rollex; or approved equivalent.
 - b. Color: as selected by Architect from manufacturer's full range.

2.05 METAL FLASHINGS

- A. Metal Flashings: Provide sheet metal eave edge, gable edge, ridge vents, open valley flashing, dormer flashing, and other flashing indicated.
- 1. Form flashings to protect roofing materials from physical damage and shed water.
 - 2. Form sections square and accurate to profile, in maximum possible lengths, free from distortion or defects detrimental to appearance or performance.
 - 3. Hem exposed edges of flashings minimum 1/4 inch on underside.
 - 4. Coat concealed surfaces of flashings with bituminous paint.
- B. Sheet Metal: Prefinished aluminum, as specified in Section 07 62 00.
- C. Bituminous Paint: Acid and alkali resistant type; black color.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions prior to beginning work.
- B. Verify that roof deck is of sufficient thickness to accept fasteners.

- C. Verify that roof penetrations and plumbing stacks are in place and flashed to deck surface.
- D. Verify deck surfaces are dry, free of ridges, warps, or voids.

3.02 PREPARATION

- A. Seal roof deck joints wider than 1/16 inch as recommended by shingle manufacturer.
- B. At areas where eave protection membrane is to be adhered to substrate, fill knot holes and surface cracks with latex filler.
- C. Broom clean deck surfaces before installing underlayment or eave protection.
- D. Install eave edge flashings tight with fascia boards, weather lap joints 2 inches and seal with plastic cement, and secure flange with nails spaced 24 inches on center.

3.03 INSTALLATION - EAVE PROTECTION MEMBRANE

- A. Install eave protection membrane from eave edge to minimum 4 ft up-slope beyond interior face of exterior wall.
- B. Install eave protection membrane in accordance with manufacturer's instructions and NRCA (RM) applicable requirements.

3.04 INSTALLATION - UNDERLAYMENT

- A. Underlayment At Roof Slopes Up to 4:12: Install two layers of underlayment over entire roof area, with ends and edges weather lapped minimum 4 inches, stagger end laps of each consecutive layer, and nail in place.
- B. Underlayment At Roof Slopes Greater Than 4:12: Install underlayment perpendicular to slope of roof, with ends and edges weather lapped minimum 4 inches, stagger end laps of each consecutive layer, nail in place, and weather lap minimum 4 inches over eave protection.
- C. Weather lap and seal watertight with plastic cement any items projecting through or mounted on roof.

3.05 INSTALLATION - VALLEY PROTECTION

- A. Install one ply of protection membrane, minimum 36 inches wide, centered over valleys.
- B. Install in accordance with manufacturer's instructions and NRCA (RM) applicable requirements.
- C. Weather lap joints minimum 2 inches.
- D. At Exposed Valleys: Install one layer of sheet metal flashing, minimum 24 inches wide, centered over open valley and crimped to guide water flow, weather lap joints minimum 2 inch wide band of lap cement along each edge of first layer, press roll roofing into cement, nail in place minimum 18 inches on center and 1 inch from edges.

3.06 INSTALLATION - METAL FLASHING AND ACCESSORIES

- A. Install flashings in accordance with NRCA (RM) applicable requirements and Section 07 62 00.
- B. Weather lap joints minimum 2 inches and seal weather tight with plastic cement.
- C. Secure in place with nails at 4 inches on center, and conceal fastenings.
- D. Items Projecting Through or Mounted on Roofing: Flash and seal weather tight with plastic cement.

3.07 INSTALLATION - SHINGLES

- A. Install shingles in accordance with manufacturer's instructions manufacturer's instructions and NRCA (RM) applicable requirements.
 - 1. Fasten individual shingles using two nails per shingle, or as required by manufacturer and local building code, whichever is greater.
 - 2. Fasten strip shingles using four nails per strip, or as required by manufacturer and local building code, whichever is greater.
- B. Place shingles in straight coursing pattern with 5 inch weather exposure to produce double thickness over full roof area, and provide double course of shingles at eaves.

- C. Project first course of shingles 3/4 inch beyond fascia boards.
- D. Extend shingles 1/2 inch beyond face of gable edge fascia boards.
- E. Place ridge vent on ridges according to manufacturer's instructions.
- F. Cap hips with individual shingles, maintaining 5 inch weather exposure, and place to avoid exposed nails.
- G. After installation, place one daub of plastic cement, one inch diameter under each individual shingle tab exposed to weather, to prevent lifting.
- H. Coordinate installation of roof mounted components or work projecting through roof with weather tight placement of counterflashings.
- I. Complete installation to provide weather tight service.

3.08 PROTECTION

- A. Limit traffic over finished roof surface to reduce surface wear.

END OF SECTION

SECTION 07 62 00
SHEET METAL FLASHING AND TRIM

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Fabricated sheet metal items, including flashings, counterflashings, and roof edges and open valleys.
- B. Removal, salvage and reinstallation of existing gutters and downspouts.
- C. Sealants for joints within sheet metal fabrications.

1.02 RELATED REQUIREMENTS

- A. Section 06 10 00 - Rough Carpentry: Wood nailers for sheet metal work.
- B. Section 07 92 00 - Joint Sealants: Sealing non-lap joints between sheet metal fabrications and adjacent construction.

1.03 REFERENCE STANDARDS

- A. AAMA 2604 - Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix).
- B. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
- C. ASTM B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate (Metric).
- D. ASTM C920 - Standard Specification for Elastomeric Joint Sealants.
- E. ASTM D4586/D4586M - Standard Specification for Asphalt Roof Cement, Asbestos-Free.
- F. CDA A4050 - Copper in Architecture - Handbook.
- G. SMACNA (ASMM) - Architectural Sheet Metal Manual.

1.04 SUBMITTALS

- A. Shop Drawings: Indicate material profile, jointing pattern, jointing details, fastening methods, flashings, terminations, and installation details.
- B. Samples: Submit two samples 3 by 5 inch in size illustrating each metal finish color.

1.05 QUALITY ASSURANCE

- A. Perform work in accordance with SMACNA (ASMM) and CDA A4050 requirements and standard details, except as otherwise indicated.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Stack material to prevent twisting, bending, and abrasion, and to provide ventilation. Slope metal sheets to ensure drainage.
- B. Prevent contact with materials that could cause discoloration or staining.

PART 2 PRODUCTS

2.01 SHEET MATERIALS

- A. Pre-Finished Aluminum: ASTM B209 (ASTM B209M); 20 gage, (0.032 inch) thick; plain finish shop pre-coated with fluoropolymer coating.
 - 1. Fluoropolymer Coating: High Performance Organic Finish, AAMA 2604; multiple coat, thermally cured fluoropolymer finish system.
 - 2. Color: As selected by Architect from manufacturer's full colors. Intent is to match existing, believed to be a dark bronze.

2.02 FABRICATION

- A. Form sections true to shape, accurate in size, square, and free from distortion or defects.

- B. Form pieces in longest possible lengths.
- C. Hem exposed edges on underside 1/2 inch; miter and seam corners.
- D. Form material with batten seams, except where otherwise indicated; at moving joints, use sealed lapped, bayonet-type or interlocking hooked seams.
- E. Fabricate corners from one piece with minimum 18 inch long legs; seam for rigidity, seal with sealant.
- F. Fabricate vertical faces with bottom edge formed outward 1/4 inch and hemmed to form drip.

2.03 GUTTER AND DOWNSPOUTS

- A. Existing gutters and downspouts are to be removed to do new work and reinstalled (and adjusted as required to ensure proper drainage flow).
- B. Accessories: Profiled to suit gutters and downspouts.
 - 1. Anchorage Devices: In accordance with SMACNA (ASMM) requirements and to match existing.
- C. Seal all metal joints, new and existing if not currently sealed.

2.04 ACCESSORIES

- A. General: Provide materials and types of fasteners, solder, welding rods, protective coatings, separators, sealants, and other miscellaneous items as required for complete sheet metal flashing and trim installation.
- B. Fasteners: Galvanized steel, with soft neoprene washers.
- C. Slip Sheet: Rosin sized building paper.
- D. Primer: Zinc chromate type.
- E. Protective Backing Paint: Zinc molybdate alkyd.
- F. Concealed Sealants: Non-curing butyl sealant.
 - 1. Butyl Sealant: ASTM C 1311, single-component, solvent-release butyl rubber sealant, polyisobutylene plasticized, heavy bodied for hooked-type expansion joints with limited movement.
 - 2. Manufacturers
 - a. Bostik, Inc; Product Chem-Calk 300: www.bostik-us.com .
 - b. Pecora Corporation; Product BC-158: www.pecora.com.
 - c. Tremco, Inc; Product Butyl Sealant: www.tremcosealants.com.
 - d. Substitutions: See Section 01 60 00 - Product Requirements.
- G. Exposed Sealants: ASTM C920; elastomeric sealant, with minimum movement capability as recommended by manufacturer for substrates to be sealed; color to match adjacent material.
 - 1. Polyurethane; ASTM C 920, Grade NS, Class 25, Uses M and A; single component.
 - 2. Manufacturers:
 - a. Tremco; Product Dymonic: www.bondaflex.com.
 - b. Bostik, Inc; Product ChemCalk 900 : www.bostik-us.com.
 - c. Pecora Corporation; Product Dynatrol I XL : www.pecora.com.
 - d. Degussa Building Systems/Sonneborn; Product Sonolastic TX 1: www.chemrex.com.
 - e. Substitutions: See Section 01 60 00 - Product Requirements.
- H. Plastic Cement: ASTM D4586/D4586M, Type I.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify roof openings, curbs, pipes, sleeves, ducts, and vents through roof are solidly set, reglets in place, and nailing strips located.
- B. Verify roofing termination and base flashings are in place, sealed, and secure.

3.02 PREPARATION

- A. Install starter and edge strips, and cleats before starting installation.
- B. Install surface mounted reglets true to lines and levels, and seal top of reglets with sealant.
- C. Back paint concealed metal surfaces with protective backing paint to a minimum dry film thickness of 15 mil.

3.03 INSTALLATION

- A. Conform to drawing details and SMACNA standards.
- B. Secure flashings in place using concealed fasteners, and use exposed fasteners only where permitted..
- C. Apply plastic cement compound between metal flashings and felt flashings.
- D. Fit flashings tight in place; make corners square, surfaces true and straight in planes, and lines accurate to profiles.
- E. Adjust existing gutters for positive slope and flow towards downspouts. See drawings for locations of high and low spots needing correction.
- F. Secure gutters and downspouts in place using concealed fasteners. Use exposed fasteners only where indicated.
- G. Seal connections watertight.

END OF SECTION

